(8)

BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARINAGAR ZONE
ELECTRICAL DIVISION
DETAILED ESTIMATE FOR PUBLIC WORKS
Providing M & R to Electrical installations of BBMP Buildings in ward No 17 of RR Nagar

Est. No.AEE/ELE/RRNZ/ EST/ / 10-11				Job Code:			Est Amount: Rs 100000.00
Sl No	SR ref		Description of Work	unit	Qty	Rate	Amount
	page	sl no					
1	2	1	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using WF screws.				
		a	19/20mm dia 2mm thick	Per Mtr	25	37.00	925.00
2	2	3	Groove cutting: Supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, meatal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run through our the conduit wherever necessary.				
		a	19/20mm dia 2mm thick	Per Mtr	25	43.00	1075.00
3	3	8	**Point wiring using copper wire with switch** Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using **copper** PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the exisiting plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.				
	4	I	**Point wiring using class A Materials**				
		a	Short poiknt upto 3Mtr from tapping point to our let via switch	Point	5	175.00	875.00
		b	Medium kpoint above 3Mtr uupto 6Mtr frolm tapping point to out let via switch	Point	1	260.00	260.00
		c	Long point above ^Mtr from tapping point to out let via switch	Point	10	368.00	3680.00
4	8	18	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimer/trlephone socket etc on existing modular switch plate..				
		d	Stepped Fan Regulator.	Each	5	520.00	2600.00
		k	TV/Telephone socket	Each	5	115.00	575.00
5	9	20	Wiring for lighting/power circuit using one of PVC insulated 11oov grad, multis and **copper** conductor single core cable in open or consealed system of wiring.				
		b	1.5 sqmm	Per Mtr.	50	15.00	750.00
		c	2.5 sqmm	Per Mtr.	100	25.00	2500.00
		d	4 sqmm	Per Mtr.	50	32.00	1600.00
		e	6 sqmm	Per Mtr.	20	52.00	1040.00
6	10	22	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc., and fixing on existing wooden or meatl box using N.F. screws.	SqCm	5000	0.22	1100.00
7	10	24	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, screws at an interval of 300mm... etc as required.				

AEE (Ele.)

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		b	25mm	Mtr	20	41.00	820.00
8	10	25	Supplying and PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy guage saddles at an interval of 300mm using NF screws and the either end of the pipe terminated completely.				
		a	20mm	Mtr	5	45.00	225.00
9	11	26	Extra for supplying 4mm thick white plastic plate and covering for junction boxes or size... mm conduit using necessary machine screws.				
		a	80mm	No	10	7.25	72.50
		b	110mm	No	10	8.75	87.50
10	11	28	Supplying .... Way plastic gang box and fixing using necessary wooden/ raw/ phill plugs and screws.				
		b	2 to 4 way gang box	No	10	22.00	220.00
11	16	3	Supply box type fluorescent tube light fitting of 4'- 36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construcion copper woundferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wited for use on 230 Volts A C Supply including fluorescent tube.				
		I	**I 1x4'-36/40Watts**				
		a	Group 'A'	Each	5	675.00	3375.00
12	23	23	Supplying capactor type ceiling fan cpmplet with down rod blades, shackele, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system.				
		I	**48" Sweep (1200mm)**				
		a	Regular model (Khaitan, Crompton Greaves, Orient, Polar, Bajaj,				
			Usha, Havells, Almonard)	Each	2	1800.00	3600.00
13	24	24	Supplying wall mounting fan suitable to operateat single-phase 230v A.C. Supply.				
		I	**I 300mm Sweep**				
		a	Group 'A'	Each	1	2150.00	2150.00
14	29	7	Fixing all types and all capacities fluorescent/false ceiling/spot light/ CGL fittings indoor on the wall/ ceiling/ rafters/ girders using 23/ 0.0076" twin twisted PVC insulated wires, required nos of round blocks and clamps (if required)				
		a	On wall/ceiling/Rafter/Girders	Each	5	105.00	525.00
15	29	8	Fixing a ceiling/Wall mounting fan of all capacities and all types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire and wiring completely.	Each	3	105.00	315.00
16	32	3	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., Complete.				
		b	32A mps	Each	4	100.00	400.00

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		c	63A mps	Each	2	219.00	438.00
17	36	12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring cdomplete as required.				
			A) 5-32Amps				
		1	Group ' A'	Each	10	195.00	1950.00
			C) 5-32Amps DP				
		1	Group ' A'	Each	2	510.00	1020.00
			F) 40-63Amps TPN				
		1	1. Group 'A'	Each	1	1495.00	1495.00
18	45	2	Supply of Calling Buzzer				
		a	Group A	No	2	110.00	220.00
19	47	26	Supply of 1x19x1000mm self adhesive Pvc insulated steel grip tape roll.	No	25	15.00	375.00
20	47	27	Supplying and replacing PVC flexible copper wire of approved make in place of deteriorated wire.				
		d	23/0.0060"	RMt	30	8.00	240.00
21		28	Supplying and drawing PVC flexible unarmoured copper control cable of approved make				
		B	**3c x 2.5Sqmm**				
		1	Group A	RMt	25	129.00	3225.00
22	49	30	Supplying and drawing UTP-CAT 5E LAN cable.				
		a	Group A	RMt	20	27.00	540.00
23	49	32	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cable of approved make.				
		B	B) 2 Pair				
		1	Group A	RMt	50	14.00	700.00
24	50	34	Supplying and fixing/replacing of 6/32Amps electrical accessories on existing wittch board.				
			Group A				
		a	6Amps SP Switch	No	10	31.00	310.00
		c	6Amps 3 Way 5 Pin Socket	No	10	41.00	410.00
		d	6Amps 3 pin Top	No	20	40.00	800.00
		f	6 Amps lamps holder	No	10	38.00	380.00
		j	16 Amps 3 way 5 pin socket	No	5	84.00	420.00
		l	32 Amps Bakelite DP	No	5	132.00	660.00
25	51	35	Supplying and fixing/replacing condenser for ceiling fan/MV/SV/MH and other luminaries.				
		a	upto 4mfd	No	10	82.00	820.00
26	51	36	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated coper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing.				
		c	1200MM	No	5	630.00	3150.00
27	51	37	Releasing the existing fan dismantling testing painting after removing the existing painting by scraping and cleaning (spray method) not less than 2 coats of approved make enamel paint to a ceiling fan and wiring and fixing of the same.	No	20	245.00	4900.00

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28	52	43	Supply and fixing of heavy duty open construction ferromagnetic copper ballast for fluorescent tubes. (p 49-1-44a (1,2,3,)				
			a) 20/40Watts				
		1	Group A	No	20	200.00	4000.00
29	52	44	Releasing the existing FTL Fitting all capacities, checking, testing and installing at same place.	No	50	30.00	1500.00
30	53	48	Supplying and fuxing/repalcing of flouresexcnt tube.(p 50-1-49 (a,b,)				
		a	18 to 40watts	No	50	65.00	3250.00
31	54	52	Supply and fixing of of 230 volts 20/40 watts starter for fluoursecent lamp. (p 51-1- 53 (a, b, c,))				
		a	Group A	No	25	18.00	450.00
32	54	53	Supply and fixing of of 230 volts 20/40 watts fluorescent lamp holder	No	20	25.00	500.00
33	54	61	Supplying and fixing 6Amps capacity 4 way universal shutter type spike buster suitable to operte on 230V 50Hz AC Supply				
		a	Group A	No	2	780.00	1560.00
34	54	62	Supplying and fixing Cordless calling bell suitable to operte on 230V 50Hz AC/ 3V DC Supply, cordless remote bell push with 2x1.5V DC Batteris and completely wired.				
		a	Group A	No	1	650.00	650.00
35	57	1	Hire charges for Supply, Fixing, Wiring, Servicing & Maintaining of decorative series set consisting of 50 Nos of 6.20 Volts 0.30Bulbs				
		c	Up to Seven days	Each Set	100	32.00	3200.00
36	57	2	Hire charges for Supply, Fixing, Wiring, Servicing& Maintaining of 4' 40Watts strip type fluorescent fitting with all accessories				
		c	Up to Seven days	Each Set	20	32.00	640.00
37	57	5	Hire charges for Supply, Fixing, Wiring, Servicing& Maintaining 250/400W Metal halide flood light fitting with all accessories				
		c	Up to Seven days	Each Set	10	700.00	7000.00
38	58	6	Hire charges for supplying wiring servicing and maintaining 1000W halogen fitting complete				
		b	Up to Seven days	Each Set	20	340.00	6800.00
39	58	7	Hire charges for supplying and running circuit service amin with nedcessary messenger wire and reel insulators and maintaining the same using				
		i	2 of 6sqmm/10sqmm PVC insulated sheathed aluminium wire				
		b	Up to Fourteen days	Per Mtr	200	6.00	1200.00
		ii	4 of 16 sqmm PVC insulated and sheathed aluminium wire				

AEE (E/S.)

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		a	Up to One week	Per Mtr	100	7.00	700.00
40	58	8	Hire charges up to one mothe for providing earth electrodes as per the Earthing specification				
		a	Up to 1 Month	Each	2	270.00	540.00
41	58	9	Hiring charges up to one month for supplying and fixing of suitable size casuarinas poles for running circuit of service mains	Each	20	25.00	500.00
42	58	10	Hire chages for supplying wiring and maintaining suitalbe size L.T. plane board with pilot lamp arrangements and the following switches				
		i	**200Amps TPST switch with pilot lamp and neutral**				
		b	Up to Fifteen days	Each	2	280.00	560.00
43	60	14	Hire charges for supplying fixing wiring and maintaining of DG sets and connected accessories. The DG Set should be maintained for all the 24 hours with necessary diesel for running the set with operation.				
		c	10 KVA DG Set	Each Day	1	3600.00	3600.00
44	60	16	Hire charges for supplying, fixing servicing and maintaining of urnning set consiting of 100Nos 6Volts 0.3Watts bulb and with suitable motor as required.				
		c	for one week	Per Mtr	20	45.00	900.00
45	61	17	Hire charges for supplying, fixing servicing and and maintaining of following change over switch for providing alternative power supply as requied				
		I	62 to 100A 4 pole				
		a	for one week	Each	2	56.00	112.00
46	68	1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.	Each	2	1950.00	3900.00
47	68	4	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class				
		I	**Class 'A' PVC Dcable**				
	69	d	4 core 16 sqmm	Per Mtr	40	150.00	6000.00
48	69	5	Labour charges for laying of 1.1KV class UG calbe when supplied agency in existing trench GI pipe/ stpnewre pip / on wall / on pole as required.				
		I	**In exixting trench/duct.**				
		a	6 sqmm to 16 sqmm	Rmtr.	40	8.00	320.00
49	70	6	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., Complete. (As per Civil SR KSRB 1-2, P-7)				
		b	In soil (hard)	Rmtr	25	50.00	1250.00

AEE (Elg.)

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		8	miscellaneous etc				45.00
			Total				**100000.00**

1) Certified that,the work spot has been inspected by me & prepared the estimate in most economical way of executing the work.

2.) The Provisions made in the estimate are adequate and are necessary.

3.) The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.

4.) The rates in the Estimate is based on the KPWD (Elect) SR 2010-11 .

Junior Engineer(Electrical)
RR Nagar Zone
BBMP

Assistant Executive Engineer(Elect)
RR Nagar Zone
BBMP

Executive Engineer(Elect)
RR Nagar Zone
BBMP

ADMINISTRATIVE APPROVED

Rs : one lakh only
.....is accorded
under the head : p02924.
.....
By AC (R.R.N.) : 1433/12-13
Vide Register Page No. 12 & 13 .....subject to conditions contained in inclosed memo No. : 1433/12-13. Date : 13/2/2013.

TA AC (R.R.N.)

Technically Sanctioned for Rs. 100000

Rs. one lakh only
.....Is accorded
under the head..... p02924
.....
By EE ... RRN/ 52/12-13.
Registered ... R.R.N. No 24/25.....Subject to conditions contained in enclosed memo No. 52/12-13. Date 18/2/2013

AE, (Elect) RRN EE, (Elect) RRN